

Mechanical Engineer

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Education Details

KCC Institute of Tech. and Mgmt, Greater Noida, UP Automatic Sorting System

B.Tech, Mechanical Engineering

JUNE 2018 - JULY 2021)

P.M. College of Engineering, Sonipat, Haryana

DIPLOMA, Mechanical Engineering

JUNE 2014 - JULY 2017

Sukhamoy Higher Secondary School, Agartala XII. TBSE

APRIL 2012 - MAY 2014

Work Experience

Mechanical Engineering Intern SEPL India Ltd.

Apr'21 - Sept'21 Delhi. India

- Worked with India's one of the fastest growing manufacturers, suppliers and service providers of elevators and escalators under the inspection and maintenance team.
- While working with the maintenance team I ha installed various components such as limits to guide rail, Junction box at the car top, GP brackets at 700 mm from the pit along with other various tasks.
- Worked closely with the leadership team to devise data-driven strategies and improve the process efficiency.

Mechanical Engineering Intern

Tata Motors Limited

Jul'16 - Sept'16 Agartala, India

- Trained with the Indian multinational automotive manufacturing company under the Research team.
- Analysed and observed the quality check and maintenance of various automobile components and their parts: Chassis, IC Engines, Suspension, Steering, Emission control technologies.
- Designed and developed various vehicle parts using CAD/CAM software with the company R and D team as well for research purposes...

Freelancer

Sept'18-Remote

Shutterstock

- From Concept development to final design details.
- I helped with visualizing clients' ideas through 3D model development, use of Photoshop.
- Ideas are then further developed to the **Prototype** stage to test concepts and design. .

Relevant Skills

Drafting 2D and 3D Drafting.

Design 3D Modeling, SPM Design, Hard Surface Modeling,

Tools Fusion 360, AutoCAD, Keyshot, SolidWorks,

Inventor, Blender

Relevant Projects

Jan'21 - May'21

Major Project

- This new technology came under the **Industry 4.0** revolution. The Industry 4.0 market is estimated to be valued at USD 71.7 Bn in 2019 and is expected to reach USD 156.6 Bn by 2024.
- Built an Automatic Sorting System which can distinguish materials based upon their properties such as color, height, and thickness. using Machine Learning
- Used CNN to achieve the interaction between the camera and **object to be detected**, the device is more user friendly then the existing technologies.

Spider Kart

Jan'17 - Mar'17

Major Project

- Global Go kart market worth around **USD 88 million** by 2022
- Chassis is an imported element of the kart. As it provides, the equivalent of suspension to give good grip at the front.
- Designed the 2D model of chassis. in AutoCad and Fusion 360 for 3D rendering.
- It has Rear Spring Suspension and Oversized Tires giving it a very unique feel and balance.

Personal Projects

Mar'20-

Minor Project

- Designed and assembled of Aircarft: Radial Engine using Autodesk Inventor.
- Designed a Screw Scissor Lift Mechanism using SolidWorks.
- Modeled a fully functional World War II Jeep with the help of Autodesk Fusion 360.
- Simulation test on Spring Coil to find out Angular Global load and Structural load with the help of Fusion 360.
- Modeled a Sci-fi Futuristic Motor-Cycle using Blender.
- Practiced various complex Mechanical Geometrical Drawings in AutoCad 2D.
- Constructed a **Supersonic Jet** and run **Simulation** tests on Autodesk fusion 360.
- Design a lightweight **Semi-Automatic Machine Gun** using fusion 360
- Modeled a **Pocket Knife** with the help of Autodesk Fusion 360.

Achievements

- Certified SOLIDWORKS Associate (CSWA) from Udemy.
- Introduction to industry 4.0 and Internet of things From NPTEL and secured 68 Percentage, conducted by Swayam at Greater Noida, India.
- Introduction to Mechanical Engineering Design and Manufacturing with Fusion 360 from Autodesk and secured 96 Percentage.
- Automotive Engineering-A completed course on Turbocharging from Udemy.
- AutoCad for Design and Drafting from Autodesk and obtained 91 Percentage.
- Automotive Engineering: Common Rail Direct Injection CRDI from Udemy.